

AMENDMENTS TO THE CLAIMS:

Claims 1-25 are canceled without prejudice or disclaimer. Claims 26-42 are added. The following is the status of the claims of the above-captioned application, as amended.

Claims 1-25. (Cancelled)

Claim 26. (New.) A fungal polypeptide having lysozyme activity and belonging to the GH25 family selected from the group consisting of:

(a) a polypeptide comprising an amino acid sequence, which has at least 80% identity with amino acids 1 to 233 of SEQ ID NO:2;

(b) a polypeptide comprising an amino acid sequence, which has at least 80% identity with the polypeptide encoded by the lysozyme encoding part of the nucleotide sequence inserted into a plasmid present in strain DSM16084;

(c) a polypeptide which is encoded by a nucleotide sequence which hybridizes under high stringency conditions with a polynucleotide probe consisting of the complementary strand of nucleotides 84 to 782 of SEQ ID NO:1; or

(d) a fragment of (a), (b) or (c) that has lysozyme activity.

Claim 27. (New.) The polypeptide according to claim 26, comprising an amino acid sequence, which has at least 85% identity with amino acids 1 to 233 of SEQ ID NO:2.

Claim 28. (New.) The polypeptide according to claim 26, comprising an amino acid sequence, which has at least 90% identity with amino acids 1 to 233 of SEQ ID NO:2.

Claim 29. (New.) The polypeptide according to claim 26, comprising an amino acid sequence, which has at least 95% identity with amino acids 1 to 233 of SEQ ID NO:2.

Claim 30. (New.) The polypeptide according to claim 26, comprising an amino acid sequence, which has at least 99% identity with amino acids 1 to 233 of SEQ ID NO:2.

Claim 31. (New.) The polypeptide according to claim 26, which comprises the amino acids 1 to 233 of SEQ ID NO:2.

Claim 32. (New.) The polypeptide according to claim 26, which consists of the amino acids 1 to 233 of SEQ ID NO:2.

Claim 33. (New.) The polypeptide according to claim 26, which is encoded by a nucleotide sequence which hybridizes under very high stringency conditions with a polynucleotide probe consisting of the complementary strand of nucleotides 84 to 782 of SEQ ID NO:1.

Claim 34. (New.) A polynucleotide having a nucleotide sequence which encodes for the polypeptide defined in claim 26.

Claim 35. (New.) A nucleic acid construct comprising the nucleotide sequence defined in claim 34 operably linked to one or more control sequences that direct the production of the polypeptide in suitable host.

Claim 36. (New.) A recombinant expression vector comprising the nucleic acid construct of claim 35.

Claim 37. (New.) A recombinant host cell comprising the nucleic acid construct of claim 35.

Claim 38. (New.) A method for producing a polypeptide as defined in claim 26, comprising:
(a) cultivating a strain, which in its wild-type form is capable of producing the polypeptide, in order to produce the polypeptide; and
(b) recovering the polypeptide.

Claim 37. (New.) A method for producing a polypeptide as defined in claim 26, comprising:
(a) cultivating a recombinant host cell as defined in claim 9, under conditions conducive for production of the polypeptide; and
(b) recovering the polypeptide.

Claim 38. (New.) A polynucleotide having a nucleotide sequence which has at least 85% identity with nucleotides 84 to 782 of SEQ ID NO:1.

Claim 39. (New.) The polynucleotide according to claim 38, which has at least 90% identity,

particularly at least at least 95% identity, more particularly at least 99% identity with the nucleotides 84 to 782 of SEQ ID NO:1.

Claim 40. (New.) The polynucleotide of claim 38 which comprises SEQ ID NO:1.

Claim 41. (New.) The polynucleotide of claim 38 which consists of SEQ ID NO:1.

Claim 42. (New.) The polynucleotide of claim 38 having a nucleotide sequence which has at least 85% identity with the lysozyme encoding part of the nucleotide sequence inserted into a plasmid present in strain DSM16084.

Claim 43. (New.) A polynucleotide having a nucleotide sequence which encodes a polypeptide having lysozyme activity, and which hybridizes under high stringency conditions with a polynucleotide probe consisting of the complementary strand of nucleotides 84 to 782 of SEQ ID NO:1.